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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/693,514 | 10/20/2000 | Paul Lapstun | NPS024US | 7916 |

24011 7590 01/24/2007
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| EXAMINER |
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PHAM, THIERRY L

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| ART UNIT | PAPER NUMBER |
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2625

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 01/24/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/693,514

Applicant(s)

LAPSTUN ET AL.

Examiner

Thierry L. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6-10, 13-39 and 42-61 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-10, 13-39, 42-61 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

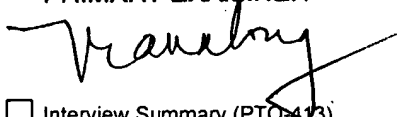
- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

DOUGLAS Q. TRAN
PRIMARY EXAMINER

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

- This action is responsive to the following communication: Amendment filed on 12/20/06.
- Claims 1-4, 6-10, 13-39, 42-61 are pending; claims 5, 11-12, 40-41 have been canceled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6-8, 10, 13, 15-24, 26-43, 45-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman et al (US 6330976), and in view of Mori (US 6137590).

Regarding claim 1, Dymetman discloses a printer (col. 11, lines 55-60) including:

- a print mechanism (inherently, all printers include a print mechanism for printing data onto a physical medium, i.e., print media) for printing document information onto one or more of a plurality of print areas provided on a print area path (printed marking medium contains plurality of encoded data (i.e. page id and location id) with different zones/areas, figs. 3-10, col. 3, lines 56-60, col. 8, lines 45-67, and col. 9, lines 1-15), each of the print areas (each zones/areas contain different coded data, figs. 3-10, col. 3, lines 56-60, col. 8, lines 45-67, and col. 9, lines 1-15) including identity data indicative (i.e. information indicating zones/positions of the areas/zones within the document, figs. 3-10, col. 3, lines 56-60, col. 8, lines 45-67, and col. 9, lines 1-15) of identity information which differentiates the print area from others of the plurality.

Dymetman teaches a printer but does not explicitly include a feed mechanism for feeding print media through a media feed path. In addition, Dymetman also teaches a portable optical sensor 502 for sensing/detecting the coded data printed on the marking medium, but fails to teach and/or suggest such optical sensor 502 is positioned adjacent

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to the media feed path downstream of said print mechanism, said at least one sensor being configured for automatically sensing the identity data of the one or more print areas as the print media is fed through said media feed path.

Mori, in the same field of endeavor for printing code data, teaches a printer (fig. 2) including a feed mechanism (print media feed mechanism, fig. 3, col. 6, lines 1-15) for feeding print media through a media feed path; optical sensor (identification code read section 8, fig. 1, col. 3, lines 55-60) is positioned adjacent to the media feed path downstream of said print mechanism (positioned adjacent to feed media path, fig. 3, col. 6, lines 1-15, in addition, positioning/placing identification code reader 8 at certain particular location within a printer is well known in the art, for example, downstream of a print mechanism, see arguments section for more details), said at least one sensor being configured for automatically (automatically reading the coded data without user's intervention, col. 6, lines 1-15) sensing the identity data (coded data 10a, fig. 2) of the one or more print areas as the print media is fed through said media feed path.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Dymetman as per teachings of Mori by incorporating the optical sensor within the printer because of a following reason: (●) an optical sensor can be either portable and/or incorporated within the printer itself; (●) coded marking medium provides a faster and better (col. 11, lines 35-60 of Mori) method for retrieving document data (i.e. in digital copy) using optical sensor device rather than manually by users via keyboard and etc.

Therefore, it would have been obvious to combine Dymetman with Mori to obtain the invention as specified in claim 1.

Regarding claim 2, Mori further discloses the printer of claim 1 wherein the identity data is represented on the print data in a coded form (coded data 10a, fig. 2) and the printer includes a decoder (col. 5, lines 10-25) which receives coded data from the at least one sensor and outputs decoded data representing at least the identity data or at least the identity information.

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Regarding claim 3, Dymetman further discloses the printer of claim 1 wherein each identity information is represented on the print area by at least two discrete items (i.e. page id and location id, col. 9, lines 5-15) of data and the decoder outputs decoded data representing at least the identity information after receiving said at least two separate items of data.

Regarding claim 4 & 6, Mori further discloses the printer of claim 1 wherein said at least one sensor is positioned to sense said identity data before/during/after printing of the document information on the respective print area (col. 6, lines 1-15).

Regarding claims 7-8, 10, Mori further discloses the printer of claim 1 further including a transmitter (network, figs. 17-19) for transmitting information to a computer system.

Regarding claim 13, Mori further discloses the printer of claim 1 operable to over-print a print area having existing document (text over graphic is well known in the art) information to render the existing document information unreadable.

Regarding claim 15, Mori further discloses the printer of claim 1 wherein the at least one sensor is selected from an image sensor (col. 5, lines 10-45) and a magnetic sensor and a chemical sensor.

Regarding claims 16-17, Mori further discloses the printer of claim 1 wherein the printer generates at least some of the information printed (medium 10 with printed information, fig. 7).

Regarding claim 18, Mori further discloses the printer of claim 1 further including a user interface (control panel as shown in fig. 2) to enable user to input identity information into the printer.

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Regarding claim 19, Mori further teaches a system for printing, the system including;

(a) a computer system (fig. 17 of Mori);

(b) a printer (printer 1, fig. 17, Mori) including:

(i) a feed mechanism (print media feed mechanism, fig. 3, col. 6, lines 1-15) for feeding print media through a media feed path;

(ii) a print mechanism (inherently, all printers include a print mechanism for printing data onto physical print media) for printing document information onto a print area provided on a print area path, the print area including identity data indicative of identity information (medium form 10, fig. 2) which differentiates the print area from other print areas including identity data, the printer including:

(iii) at least one sensor (identification code read section 8, fig. 1) the identity data of the print area positioned adjacent (positioned adjacent to feed media path, fig. 3, col. 6, lines 1-15) said media feed path downstream of said print mechanism, said at least one sensor being configured for automatically sensing (automatically reading the coded data without user's intervention, col. 6, lines 1-15) the identity data of the print area as said print media is fed through said media feed path;

(iv) a transmitter (I/F 2, fig. 1) for transmitting data to the computer system, the data selected from one of the following:

(1) the identity information (coded data 10a, fig. 2);

(2) data representative of the identity information (coded data identify digital copy of original document, fig. 2);

(3) the identity data, or

(4) data representative of the identity data,

the computer system including:

(i) a receiver (I/F 2, fig. 1) for receiving transmitted data, and

(ii) means for generating association data using transmitted data, said association data being being representative (identification code assignment section 7, fig. 1) of an association data between the document information and the identity information;

(iii) memory (storage section 4, fig. 1) for storing the association data.

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Regarding claims 20-24, 26-36 recite limitations that are similar and in the same scope of invention as to those in claims 2-4, 6-8, 10,13-18 above; therefore, claims 20-24, 26-36 are rejected for the same rejection rationale/basis as described in claims 2-4, 6-8, 10,13-18.

Regarding claims 37-39, 42-43, 45-58, which are the method claims corresponding to the apparatus claims 1-4, 6-8 and 10, 13, 15-18 and are in the same scope of invention. The method claims are included by the operation of the apparatus claims. Please see claims rejection basis/rationale as described in claims 1-4, 6-8 and 10, 13, 15-18 above.

Regarding claim 59-61, Dymetman further discloses each print area including identity data indicative of an identity of the respective print area (zones/areas, cols. 11-12).

Claims 9, 25, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman and Mori as described in claims 1, 19, and/or 37 above, and further in view of Mizutani (U.S. 6078400).

Regarding claims 9, 25, and 44, Mori does not explicitly disclose a means to detect failure to correctly print document information onto a print area and for generating a void signal on detection of said failure, the transmitter transmitting said void signal to the computer system.

Mizutani, in the same field of endeavor for printing, teaches a means (error detection device, fig. 3a) to detect failure to correctly print document information onto a print area and for generating a void signal (error signal, cols. 3-4) on detection of said failure, the transmitter (network, fig. 1) transmitting said void signal to the computer system.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Mori and Dymetman as per teachings of Mizutani because of a following reason: (1) to correctly sense/detect the errors occurred while printing

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and/or within the printers and to quickly resolve such errors as per teachings of Mizutani; therefore, provides high output quality prints.

Therefore, it would have been obvious to combine Mori and Dymetman with Mizutani to obtain the invention as specified in claims 9, 25, and 44.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman and Mori as described in claims 1, and further in view of Ur (US 6072871).

The combinations of Dymetman and Mori discloses a marking medium contains both coded data and human readable information (col. 14, lines 39-45, col. 35-39, and col. 19, lines 33-42) but fails to teach and/or suggest the printer includes a print mechanism for printing on at least two of print areas substantially simultaneously.

Ur, in the same field of endeavor for printing, teaches an ink jet printer (printer 17, fig. 1) prints the coded data at the same time as printing the document on the surface defining structure (prints coded data 27 and document texts as shown in fig. 2 at the same time, col. 4, lines 41-47).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Dymetman and Mori as per teaching of Ur because of a following reason: (●) reduce hardware costs and time by printing both coded data and document data simultaneously.

Therefore, it would have been obvious to combine Mori, Dymetman, and Ur to obtain the invention as specified in claim 14.

Response to Arguments

Applicant's arguments filed 12/20/06 have been fully considered but they are not persuasive.

- Regarding claim 1, the applicants argued the cited prior arts of record fails to teach and/or suggest positioning a scanner adjacent to a print media path *downstream* of the printhead, and is not configured to automatically read each barcode.

In response, the Examiner first notes to the applicants that the argued subject was not previously cited in rejected claim 1. However, Mori explicitly teaches a printer (fig.

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2) including a feed mechanism (print media feed mechanism, fig. 3, col. 6, lines 1-15) for feeding print media through a media feed path; optical sensor (identification code read section 8, fig. 1, col. 3, lines 55-60) is positioned adjacent to the media feed path downstream of said print mechanism (positioned adjacent to feed media path, fig. 3, col. 6, lines 1-15), said at least one sensor being configured for automatically (automatically reading the coded data without user's intervention, col. 6, lines 1-15) sensing the identity data (coded data 10a, fig. 2) of the one or more print areas as the print media is fed through said media feed path. Fig. 1 shows identification code read section 8 is internal of a printer 1; and wherein fig. 2 shows an example of an identification code read section 8 is fixed to the printer; fig. 3 shows an example of wherein an identification code read section 8 is positioned in a region of a recording medium feed passage (media feed path) upstream of a printhead; fig. 4 shows an example of an identification code reader 8 is positioned on a sidewall of the printer; fig. 10 shows an identification code reader 8 and printer control section (CPU) are communicated via using radio signals (e.g. wireless communication). Therefore, position/placing an identification code reader 8 at certain particular location is a design choice basis. For example, since an identification code reader 8 and control section of the printer are communicated wirelessly via radio signals (fig. 10 and col. 7, lines 29-45), therefore, identification code reader 8 can be mounted at any positions (e.g. internal, external, downstream of print mechanism, print media tray, *including downstream* of print mechanism, and etc) within the printer.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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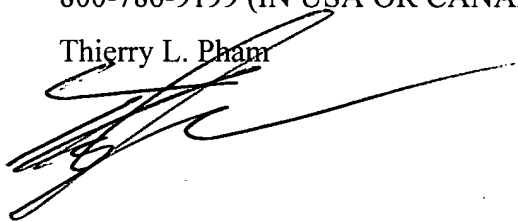
advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thierry L. Pham whose telephone number is (571) 272-7439. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thierry L. Pham



DOUGLAS Q. TRAN
PRIMARY EXAMINER

